

CLAIMS

1. A hinge (1, 9, 12, 17) for eyeglass arms the rotation of which is controlled by elastic means, **characterized** in that the hinge comprises a chamber (2, 13, 18, 14, 51) integral with the eyeglass frame, an end of a arm (3, 3A, 44, 52) hinged therein and at least one first elastic means in the form of a flexure element (4, 10, 14, 19, 24, 27, 42, 53, 54), the end of the arm and the flexure element being reciprocally positioned and in contact with each other in such a manner as to control the rotation of the arm between an open position and a closed position and to retain it in said positions.

2. A hinge (1, 9, 12, 17, 40, 50) for eyeglass arms in accordance with Claim 1, characterized in that the centre of rotation of said end (3, 3A, 44, 52) hinged within the chamber coincides with the centre of the chamber.

3. A hinge (1, 9, 12, 17, 40, 50) for eyeglass arms in accordance with Claim 1, characterized in that the centre of rotation of said end of the arm (3, 3A, 44, 52) is displaced from the centre of the chamber in order to increase or diminish the pressure of said end on said flexure element.

4. A hinge (1) for eyeglass arms in accordance with Claims 1 to 3, characterized in that said flexure element is a lateral leaf spring (4) retained along the lateral wall of the chamber by appropriate seatings (5) of the chamber and that said spring comprises two concave seatings (C, C') set at a certain distance apart to alternately receive an extension (8) of the arm (3) and block the latter, respectively, in an open and a closed position (A, B).

5. A hinge (9) for eyeglass arms in accordance with Claims 1 to 4, characterized in that said flexure element is a lateral leaf spring (10) that comprises at least one concave seating (11) between said two opposite concave seatings (C, C') to block the arm in an intermediate position.

6. A hinge (12) for eyeglass arms in accordance with Claims 1 to 3, characterized in that said flexure element is a lateral leaf spring (14) integrally attached to the extension (8) of the arm (3) and that said chamber comprises a plurality of concave seatings (16) on the lateral wall, each capable of receiving said extension (8) with the spring (14).

7. A hinge (17) for eyeglass arms in accordance with Claims 1 to 3, characterized in that said flexure element is a transverse leaf spring (19) in the form of a circular crown engaged within the chamber (18) with either the top or the bottom of the end of the arm, which spring (19) comprises a plurality of undulations (20) that form seatings (21) to receive the end of the arm.

8. A hinge for eyeglass arms in accordance with Claims 1 to 3, characterized in that said flexure element is a transverse leaf spring (24) in the form of a circular crown engaged within the chamber (18) with either the top or the bottom of the end of the arm, which spring (24) comprises a plurality of undulations (25), and that the end of the arm (3A) comprises a concave seating (26) to receive said undulations.

9. A hinge for eyeglass arms in accordance with Claims 1 to 3, characterized in that the end of the arm (3, 3A) comprises a flexure element in the form of a transverse leaf spring (27) oriented either towards the upper or the lower wall of the chamber, these walls being provided with a plurality of concave seatings (30) to receive said flexure element (27).

10. A hinge (50) for eyeglass arms in accordance with Claims 1 to 3, characterized in that it comprises both a lateral spring (53) and a transverse spring (54).

TO THE MINISTRY OF PRODUCTIVE ACTIVITIES

ITALIAN PATENTS AND TRADEMARKS OFFICE - ROME

The undersigned Elvia VECELLIO CREPPE, of Italian Nationality, residing in Via Vigo , 1 – fraz. Pelos – 32040 Vigo di Cadore (BL), through the agents Ferraiolo Ruggero and Ferraiolo Rossana of Ferraiolo s.r.l. and domiciled by law in Milan, Via Napo Torriani, 10, with the agents, filed on 16 April 2003 the Utility Model Application n° MI 2003 U 000187 having the title “Hinge for eyeglass arms”.

By the Art. 26-1 of DPR 05/02/1940 n° 244, as modify of DPR 22/06/1979, n° 338, the undersigned

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for the description being amended as shown in n° 8 apostille specified in the following documents:

- a) copy of pages 5, 6 and 9 of the original text whereupon the references to the apostille are numbered progressively, each apostille being initialled;
- b) list of numbered apostille comprising the amendments as brought, affix A;
- c) “ex-novo” copy of the pages 5, 6 and 9 of the text as originally filed wherein the amendments are incorporated.

Yours respectfully,

For Elvia VECELLIO CREPPE

The agent

Ruggero Ferraiolo

of Ferraiolo s.r.l.

Milan, 7 April 2004

AFFIX A

Amedment to the description in the Utility Model application n° MI 2003 U 000187.

APOSTILLE 1:

at page 5 – line 2 the word “bussola” becomes “camera cilindrica” (*in english “cilindrical chamber”*);

APOSTILLE 2:

at page 5 – line 11 the word “bussola” becomes “camera cilindrica”;

APOSTILLE 3:

At page 5 – line 19 the word “bussola” becomes “camera cilindrica”;

APOSTILLE 4:

At page 5 – line 24 the word “bussola” becomes “camera cilindrica”;

APOSTILLE 5:

At page 6 – line 14 the word “circolare” becomes “cilindrica” (*in english “cilindrical”*);

APOSTILLE 6:

At page 6 – line 19 the reference number “3” becomes “3A”;

APOSTILLE 7:

At page 6 – line 22 the reference number “3” becomes “3A”;

APOSTILLE 8:

At page 9 – line 3 the reference number “18” is put in parentheses.

For Elvia VECCELLIO CREPPE

The agent

Ruggero Ferraiolo

of Ferraiolo s.r.l.

Milan, 7 April 2004